CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

## QC ABSTRACT

**NAME OF WORK:** Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Steel | Bend test | One Test | | 1 | 1 |
| | | Tensile Test | One Test | | 1 | 1 |
| | | Yield Test | One Test | | 1 | 1 |
| | | ReBend test | One Test | | 1 | 1 |
| 6 | Block(400*200*200) | BLOCK DENSITY | One Test | | 1 | 1 |
| | | WATER ABSORPTION | One Test | | 1 | 1 |
| | | DIMENSION ANALYSIS | One Test | | 1 | 1 |
| | | COMPRESSIVE STRENGTH | One Test | | 1 | 1 |
| 7 | Brick | Compressive Strength | One Test | | 1 | 1 |
| | | WATER ABSORPTION | One Test | | 1 | 1 |
| | | EFFLORESCENCE | One Test | | 1 | 1 |
| | | DIMENSIONS AND TOLERANCES | One Test | | 1 | 1 |
| 8 | PCC(M15) | Compressive Strength(7days and 28days) | 5 set /51-100 cum | 62.33 | 10 | 10 |
| 9 | PCC(M20) | Compressive Strength(7days and 28days) | 6 set /101-150 cum | 126.06 | 12 | 12 |
| 10 | RCC(M25) | Compressive Strength(7days and 28days) | 3 set /16-30 cum | 17.16 | 6 | 6 |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 20-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification .<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 18-09-21 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.54 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 298.2 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.12 | – |
| 4 | Standard Consistency (%) | 29.0% | Not specified |
| 5 | Initial Setting time | 160 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 255 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



****End of Report****

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 16-10-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 18-09-21 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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****End of Report****

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 20-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 17-09-21 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 187 | 187 | 1.2 | 98.8 | 90-100 |
| 3 | 20 mm | 7276 | 7463 | 49.8 | 50.2 | 30-70 |
| 4 | 10 mm | 4074 | 11537 | 76.9 | 23.1 | 10-35 |
| 5 | 4.75 mm | 3000 | 14537 | 96.9 | 3.1 | 0-5 |
| 6 | Pan | 463 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2021-11-27-54** **Date: 20-09-21**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 12.4 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.8 | |
| 3 | Specific Gravity | 2.68 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.53 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.57 | – |
| 6 | Water Absorption(%) | 0.23 | – |

AG-1

• The results obtained are satisfactory as per standard requirements.

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**Technical Manager**



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 20-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 17-09-21 |

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**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 236 | 236 | 4.7 | 95.3 | 90-100 |
| 3 | 10 mm | 2629 | 2865 | 57.3 | 42.7 | 25-55 |
| 4 | 4.75 mm | 1779 | 4644 | 92.9 | 7.1 | 0-10 |
| 5 | Pan | 356 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2021-11-27-54** **Date: 20-09-21**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 9.3 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 10.7 | |
| 3 | Specific Gravity | 2.67 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.54 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.58 | – |
| 6 | Water Absorption(%) | 0.22 | – |
| 7 | Aggregate crushing Value(%) | 24.5 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 23.5 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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**Technical Manager**



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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 20-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 17-09-21 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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## TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 18-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012 |
| **Date of test** | : | 17-09-21 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.391 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/10/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 30-09-21 |
| **Customer ID** | : | PCC For Retaining Wall Base |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 05/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 151.68 X 149.89 X 151.71 | 22736 | 8.358 | 285.4 | 12.6 | 12.2 |
| 2 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 151.03 X 150.01 X 150.83 | 22656 | 8.886 | 275.0 | 12.1 | |
| 3 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 149.64 X 149.24 X 151.61 | 22333 | 8.254 | 268.2 | 12.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 26/10/2021** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 30-09-21 |
| **Customer ID** | : | PCC For Retaining Wall Base |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| **Date of test** | : | 26/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 26/10/2021 | 151.71 X 150.06 X 149.56 | 22765 | 8.179 | 400.1 | 17.6 | 17.7 |
| 2 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 26/10/2021 | 151.45 X 151.79 X 149.98 | 22989 | 8.597 | 411.2 | 17.9 | |
| 3 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 26/10/2021 | 150.84 X 149.38 X 150.54 | 22532 | 8.829 | 397.1 | 17.6 | |

AC-1

* The results obtained are satisfactory as per standard requirements.

**Note:**

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/10/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 30-09-21 |
| **Customer ID** | : | PCC For Retaining Wall Base |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| **Date of test** | : | 05/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 150.61 X 150.56 X 149.77 | 22676 | 8.358 | 291.6 | 12.9 | 12.6 |
| 2 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 149.29 X 149.99 X 151.34 | 22392 | 8.886 | 289.6 | 12.9 | |
| 3 | PCC For Retaining Wall Base | M15 | 28/09/2021 | 05/10/2021 | 149.27 X 149.70 X 149.58 | 22346 | 8.254 | 271.1 | 12.1 | |

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 08/10/2021** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No.19,3rd Floor, 1st Main , Nrupathunganagara, J P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 04-10-21 |
| **Customer ID** | : | PCC |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| **Date of test** | : | 08/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 01/10/2021 | 08/10/2021 | 150.81 X 149.95 X 151.28 | 22614 | 8.358 | 276.3 | 12.2 | 12.7 |
| 2 | PCC | M15 | 01/10/2021 | 08/10/2021 | 149.18 X 149.25 X 150.53 | 22265 | 8.886 | 287.4 | 12.9 | |
| 3 | PCC | M15 | 01/10/2021 | 08/10/2021 | 151.19 X 150.08 X 149.67 | 22691 | 8.254 | 292.1 | 12.9 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2021-11-27-54 **Date: 08/10/2021**

**Customer** : Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore.

**Address** : Yalahanka Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01

**Agency** : Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P Nagara, 7th Phase, Bangalore-560078

**Customer's Reference** : BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 04-10-21

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 08/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 01/10/2021 | 08/10/2021 | 151.96 X 150.38 X 151.46 | 22851 | 8.358 | 281.7 | 12.3 | 12.5 |
| 2 | PCC | M15 | 01/10/2021 | 08/10/2021 | 150.44 X 149.85 X 151.29 | 22543 | 8.886 | 277.2 | 12.3 | |
| 3 | PCC | M15 | 01/10/2021 | 08/10/2021 | 151.08 X 151.35 X 149.23 | 22865 | 8.254 | 291.2 | 12.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2021-11-27-54 **Date: 26/10/2021**

**Customer** : Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore.

**Address** : Yalahanka Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01

**Agency** : Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078

**Customer's Reference** : BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 20-10-21

**Customer ID** : Steps Concrete (Northside)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 151.51 X 150.48 X 151.08 | 22800 | 8.439 | 418.3 | 18.3 | 18.3 |
| 2 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 149.09 X 149.60 X 151.80 | 22304 | 8.932 | 408.2 | 18.3 | |
| 3 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 150.71 X 149.13 X 151.97 | 22475 | 8.303 | 412.6 | 18.4 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-11-27-54** **Date: 26/10/2021**

**Customer** : Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore.

**Address** : Yalahanka Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01

**Agency** : Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078

**Customer's Reference** : BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 20-10-21

**Customer ID** : Steps Concrete (Northside)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 150.47 X 151.34 X 149.90 | 22773 | 8.439 | 413.8 | 18.2 | 18.4 |
| 2 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 150.49 X 149.28 X 150.69 | 22466 | 8.932 | 418.5 | 18.6 | |
| 3 | Steps Concrete (Northside) | M20 | 18/10/2021 | 25/10/2021 | 151.69 X 151.76 X 149.68 | 23021 | 8.303 | 421.3 | 18.3 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/11/2021

| | | |
|---|---|---|
| Lab ID | : | CP-2021-11-27-54 |
| Customer | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yalahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| Agency | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 04-11-21 |
| Customer ID | : | Steps Concrete (West side) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 09/11/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Steps Concrete (West side) | M20 | 02/11/2021 | 09/11/2021 | 151.24 X 151.78 X 150.86 | 22955 | 8.439 | 430.4 | 18.7 | 18.3 |
| 2 | Steps Concrete (West side) | M20 | 02/11/2021 | 09/11/2021 | 151.54 X 151.17 X 151.28 | 22908 | 8.932 | 414.7 | 18.1 | |
| 3 | Steps Concrete (West side) | M20 | 02/11/2021 | 09/11/2021 | 150.52 X 151.43 X 149.95 | 22793 | 8.303 | 413.6 | 18.1 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/12/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 04-11-21 |
| **Customer ID** | : | Steps Concrete (West side) |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 30/11/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Steps Concrete (West side) | M20 | 02/11/2021 | 30/11/2021 | 149.22 X 151.83 X 151.73 | 22656 | 8.220 | 524.0 | 23.1 | 22.8 |
| 2 | Steps Concrete (West side) | M20 | 02/11/2021 | 30/11/2021 | 149.39 X 150.27 X 151.56 | 22449 | 8.729 | 501.9 | 22.4 | |
| 3 | Steps Concrete (West side) | M20 | 02/11/2021 | 30/11/2021 | 149.47 X 149.92 X 150.98 | 22407 | 8.229 | 516.2 | 23.0 | |

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Authorized Signatory
Technical Manager


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/10/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-10-21 |
| **Customer ID** | : | Retaining Wall Base Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M25 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 11/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 11/10/2021 | 151.70 X 150.80 X 149.89 | 22876 | 8.058 | 533.2 | 23.3 | 22.9 |
| 2 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 11/10/2021 | 150.17 X 151.35 X 151.95 | 22728 | 8.268 | 514.8 | 22.7 | |
| 3 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 11/10/2021 | 149.26 X 150.05 X 151.47 | 22397 | 8.201 | 511.4 | 22.8 | |

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**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/11/2021

| | | |
|---|---|---|
| Lab ID | : | CP-2021-11-27-54 |
| Customer | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yalahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| Agency | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 06-10-21 |
| Customer ID | : | Retaining Wall Base Concrete |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M25 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| Date of test | : | 01/11/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 01/11/2021 | 151.15 X 151.55 X 150.48 | 22907 | 8.674 | 634.8 | 27.7 | 27.8 |
| 2 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 01/11/2021 | 151.87 X 151.18 X 151.35 | 22959 | 8.319 | 614.6 | 26.8 | |
| 3 | Retaining Wall Base Concrete | M25 | 04/10/2021 | 01/11/2021 | 150.01 X 149.95 X 150.45 | 22495 | 8.759 | 651.1 | 28.9 | |

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 17/10/2021** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 11-10-21 |
| **Customer ID** | : | Retaining Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M25 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |

**Date of test** : 16/10/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Retaining Wall Concrete | M25 | 09/10/2021 | 16/10/2021 | 149.31 X 149.64 X 151.70 | 22343 | 8.058 | 535.3 | 24.0 | 22.9 |
| 2 | Retaining Wall Concrete | M25 | 09/10/2021 | 16/10/2021 | 150.02 X 149.70 X 149.42 | 22458 | 8.268 | 502.2 | 22.4 | |
| 3 | Retaining Wall Concrete | M25 | 09/10/2021 | 16/10/2021 | 149.63 X 149.94 X 151.23 | 22435 | 8.201 | 502.9 | 22.4 | |

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1. The results obtained are satisfactory as per standard requirements.

**Note:**

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-11-27-54 **Date: 06/11/2021**

Customer : Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore.

Address : Yalahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01

Agency : Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J P.Nagara, 7th Phase, Bangalore-560078

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-10-21

Customer ID : Retaining Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Retaining Wall Concrete | M25 | 09/10/2021 | 06/11/2021 | 149.95 X 149.69 X 150.01 | 22447 | 8.674 | 606.6 | 27.0 | 27.4 |
| 2 | Retaining Wall Concrete | M25 | 09/10/2021 | 06/11/2021 | 149.39 X 150.38 X 151.56 | 22466 | 8.319 | 594.3 | 26.5 | |
| 3 | Retaining Wall Concrete | M25 | 09/10/2021 | 06/11/2021 | 151.38 X 149.71 X 151.62 | 22662 | 8.759 | 652.1 | 28.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/10/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J P Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK D/EPMT-01/W O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 13-10-21 |
| **Customer ID** | : | Sump Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M25 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| **Date of test** | : | 18/10/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sump Concrete | M25 | 11/10/2021 | 18/10/2021 | 150.88 X 150.47 X 149.93 | 22703 | 8.058 | 540.2 | 23.8 | 23.1 |
| 2 | Sump Concrete | M25 | 11/10/2021 | 18/10/2021 | 150.97 X 149.93 X 150.36 | 22635 | 8.268 | 511.8 | 22.6 | |
| 3 | Sump Concrete | M25 | 11/10/2021 | 18/10/2021 | 149.30 X 150.89 X 150.97 | 22527 | 8.201 | 514.5 | 22.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/11/2021

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 19-11-21 |
| **Customer ID** | : | G.F Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M25 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 24/11/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | G.F Slab Concrete | M25 | 17/11/2021 | 24/11/2021 | 149.72 X 151.08 X 150.49 | 22620 | 8.058 | 527.7 | 23.3 | 22.8 |
| 2 | G.F Slab Concrete | M25 | 17/11/2021 | 24/11/2021 | 149.70 X 151.26 X 149.95 | 22644 | 8.268 | 507.1 | 22.4 | |
| 3 | G.F Slab Concrete | M25 | 17/11/2021 | 24/11/2021 | 151.40 X 151.54 X 149.45 | 22943 | 8.201 | 518.3 | 22.6 | |

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## CEMENT CONCRETE FLOORING TILES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 22-09-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type** | : | Pre-Polished Designer Cement Concrete Tiles |
| **Reference to BIS codes** | : | IS 1237:2012 |
| **Date of test** | : | 17-09-21 |

**1. Water Absorption**

| Sl.No. | Measured Dimension (mm) | | | Water Absorption | Average | Requirement as per IS:1237-2012 |
|---|---|---|---|---|---|---|
| | L | B | T | (%) | (%) | |
| 1 | 400 | 399 | 25.09 | 2.530 | 2.21 | The average percentage of water absorption shall not exceed 10 |
| 2 | 401 | 401 | 25.05 | 1.920 | | |
| 3 | 400 | 401 | 25.11 | 2.170 | | |
| 4 | 400 | 399 | 25.06 | 2.060 | | |
| 5 | 399 | 400 | 25.17 | 1.800 | | |
| 6 | 400 | 400 | 25.13 | 2.760 | | |

**2.Wet Transverse Strength**

| Sl.No. | Measured Dimension (mm) | | | Wet Transverse Strength | Average | Requirement as per IS:1237-2012 |
|---|---|---|---|---|---|---|
| | L | B | T | ($N/mm^2$) | ($N/mm^2$) | |
| 1 | 401 | 401 | 25.02 | 7.83 | 7.8 | The average wet transverse strength shall not be less than $3N/mm^2$. |
| 2 | 401 | 401 | 25.04 | 8.16 | | |
| 3 | 400 | 399 | 25.06 | 7.51 | | |
| 4 | 399 | 401 | 25.01 | 7.88 | | |
| 5 | 400 | 400 | 25.05 | 8.25 | | |
| 6 | 401 | 399 | 25.03 | 7.29 | | |

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Technical Manager


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## TEST REPORT OF CERAMIC TILES

Date: 23-09-21

| | | |
|---|---|---|
| **Lab ID** | : | CP-2021-11-27-54 |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type/ Size** | : | Ceramic tiles (300X300)mm |
| **Reference to BIS codes** | : | IS 13630 (part 1) : 2006, IS 15622:2006 |
| **Date of test** | : | 17-09-21 |

### MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

| Number Of Specimen | Length measured at position 5mm from the corner | | Breadth measured at position 5mm from the corner | | Thickness measured at thickest part, 4 diagonal segment | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 4 |
| 1 | 300 | 300 | 300 | 300 | 6.04 | 6.01 | 6.08 | 6.04 |
| 2 | 300 | 300 | 300 | 300 | 6.01 | 6.07 | 6.01 | 6.01 |
| 3 | 300 | 300 | 300 | 300 | 6.03 | 6.05 | 6.06 | 6.03 |
| 4 | 300 | 300 | 300 | 300 | 6.06 | 6.05 | 6.08 | 6.06 |
| 5 | 300 | 300 | 300 | 300 | 6.08 | 6.06 | 6.05 | 6.08 |
| 6 | 300 | 300 | 300 | 300 | 6.03 | 6.07 | 6.07 | 6.07 |
| 7 | 300 | 300 | 300 | 300 | 6.08 | 6.05 | 6.08 | 6.07 |
| 8 | 300 | 300 | 300 | 300 | 6.02 | 6.05 | 6.04 | 6.05 |
| 9 | 300 | 300 | 300 | 300 | 6.04 | 6.04 | 6.02 | 6.04 |
| 10 | 300 | 300 | 300 | 300 | 6.04 | 6.01 | 6.05 | 6.04 |
| Average | 300 | | 300 | | 6.05 | | | |

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# TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 22-09-21

| | | |
|---|---|---|
| **Lab ID** | : | CP-2021-11-27-54 |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-09-21 |
| **Sample Type/Size** | : | Solid concrete blocks size (400X200X200)mm |
| **Reference to BIS codes** | : | IS 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10) |
| **Date of test** | : | 17-09-21 |

**BLOCK DENSITY:**

| Sl. No. | Measurement of overall Dimensions of Individual Blocks | | | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*$10^6$ | Avg.Block Density in (Kg/cum) | As per IS 2185(Part 1) :2005 (RA 2010) |
|---|---|---|---|---|---|---|---|---|
| | Length | Breadth | Height | | | | | |
| | mm | mm | mm | ($Cm^3$) | Kg | $Kg/m^3$ | $Kg/m^3$ | |
| 1 | 398 | 203 | 203 | 16401 | 32.014 | 1951.9 | 1989.5 | Not less than 1800$Kg/m^3$ |
| 2 | 404 | 199 | 202 | 16240 | 32.239 | 1985.2 | | |
| 3 | 402 | 201 | 199 | 16080 | 32.663 | 2031.3 | | |

**WATER ABSORPTION:**

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg.Water Absorption | As per IS 2185(Part 1):2005 (RA 2010) |
|---|---|---|---|---|---|
| | kg | kg | % | % | |
| 1 | 33.91 | 32.25 | 4.89 | 4.25 | Shall not be more than 10% by mass |
| 2 | 33.57 | 32.14 | 4.28 | | |
| 3 | 33.44 | 32.24 | 3.59 | | |



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# TEST REPORT FOR PLASTER SAND

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-11-27-54** **Date: 10-11-21** |
| **Customer** | : | Assistant Executive Engineer, Yalahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yalahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Kalyani at Yelahanka lake in Kempegowda ward no -01 |
| **Agency** | : | Sri.P.Dhamodara Raju, No:19,3rd Floor, 1st Main , Nrupathunganagara, J.P.Nagara, 7th Phase, Bangalore-560078 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-01/W.O/ /2021-22 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-11-21 |
| **Sample Type** | : | Plaster Sand |
| **Reference to BIS codes** | : | IS: 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS1542:1992 (Sand for Plaster - Specification)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 06-11-21 |
| **Total weight taken** | : | 1000 grams |

| SLno | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 1542:1992 |
|---|---|---|---|---|---|---|
| 1 | 10 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 4.75 mm | 35 | 35 | 3.5 | 96.5 | 95-100 |
| 3 | 2.36 mm | 15 | 50 | 5 | 95 | 95-100 |
| 4 | 1.18 mm | 50 | 100 | 10 | 90 | 90-100 |
| 5 | 600 micron | 100 | 200 | 20 | 80 | 80-100 |
| 6 | 300 micron | 215 | 415 | 41.5 | 58.5 | 20-65 |
| 7 | 150 micron | 500 | 915 | 91.5 | 8.5 | 0-15 |
| 8 | Pan | 85 | 1000 | 100 | 0 | --- |



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## TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2021-11-27-54** **Date: 10-11-21**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.8 | – |
| 2 | Specific Gravity | 2.56 | – |
| 3 | Material finer than 75 micron(%) | 8.5 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

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**FOR CIVIL Pro.**

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Authorized Signatory
**Technical Manager**


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